Mutation Research, 203 (1988) 445–446
Elsevier

Contents

Volume 203 (1988)

Research Papers

Chromosomal abnormalities and sister-chromatid exchange in bone marrow cells of mice and Chinese hamsters after inhalation and intraperitoneal administration
II. Cyclophosphamide (MTR 08661)
J. Jenderny, R.-A. Walk, U. Hackenberg and G. Röhrborn (F.R.G.) 1

Biomonitoring of low levels of mercurial derivatives in water and soil by Allium micronucleus assay (MTR 08666)
S. Dash, K.K. Panda and B.B. Panda (India) 11

A non-invasive micronucleus assay in the rat liver (MTR 08669)
I. Braithwaite and J. Ashby (Great Britain) 23

Preliminary studies on scoring micronuclei by computerised image analysis (MTR 08670)
M. Fenech, L.R. Jarvis and A.A. Morley (Australia) 33

Response of the L-arabinose forward mutation assay of *Salmonella typhimurium* to frameshift-type mutagens (MTR 08673)
C. Hera and C. Pueyo (Spain) 39

Induction and survival of micronuclei in rat spermatids. Comparison of two meiotic micronucleus techniques using cyclophosphamide (MTR 08674)
J. Lähdetie (Finland) 47

Meeting Reports

Banbury Center DNA Adducts Workshop (MTR 08675)
F.J. de Serres (U.S.A.) 55

Mammalian cell mutagenesis, Banbury Conference (MTR 08676)
M.M. Moore, D.M. DeMarini, F.J. de Serres and K.R. Tindall (U.S.A.) 69

Announcement 79

Research Papers

Evaluation of the SOS chromotest (MTR 08679)
W. Von der Hude, C. Behm, R. Gürtler and A. Basler (F.R.G.) 81

Effect of dipyridoimidazole pretreatment on mutagen activation in rats (MTR 08678)
C. De Meester, E. Glorieux and G. Saint-Ruf (Belgium, France) 95

Genotoxic effects of a sub-acute low-level inhalation exposure to a mixture of carcinogenic chemicals (MTR 08677)
W.W. Au, J.B. Ward Jr., V.M.S. Ramanujam, B.L. Harper, M.T. Moslen and M.S. Legator (U.S.A.) 103

The Drosophila wing test: A comparison of the sensitivity of different strains (MTR 08683)
J. Clements, D. Howe, M. Phillips and N.K. Todd (Great Britain) 117

In vitro analysis of germ cell genotoxicity in testis explant cultures: spermatid micronucleus assays (MTR 08671)
M.S. Risley, A. Miller and D.A. Bumcrot (U.S.A.) 125

Activity of germ-cell mutagens and nonmutagens in the rat spermatocyte UDS assay (MTR 08680)
K.S. Bentley and P.K. Working (U.S.A.) 135

Obituary

Professor Dr. A. Barthelmess, 1910–1987 (MTR 08687)
H.G. Miltenburger (F.R.G.) 143

Research Papers

A statistical analysis for the mouse lymphoma cell forward mutation assay (MTR 08684)
S.A. Murphy, W.J. Caspary and B.H. Margolin (U.S.A.) 145

Evaluation of a genotoxicity test measuring DNA-strand breaks in mouse lymphoma cells by alkaline unwinding and hydroxyapatite elution (MTR 08685)
P. Garberg, E.-L. Åkerblom and G. Bolcsfoldi (Sweden) 155

0165-1161/88/$03.50 © 1988 Elsevier Science Publishers B.V. (Biomedical Division)

Assessment of the potential germ cell mutagenicity of industrial and plant protection chemicals as part of an integrated study of genotoxicity in vitro and in vivo (MTR 08688)
P. Arni, J. Ashby, S. Castellino, G. Engelhardt, B.A. Herbold, R.A.J. Priston and W.J. Bontinck (Belgium) 177

Meeting Report
Approaches for human population monitoring (MTR 08686)
F.J. de Serres and T. Matsushima (U.S.A., Japan) 185

European Environmental Mutagen Society
Abstracts of posters presented at the 17th Annual Meeting of the European Environmental Mutagen Society (EEMS), 19–23 July 1987, Zurich (Switzerland) (MTR 08681) 201

Announcement 249

Research Papers
The effect of exposure regimen and duration on benzene-induced bone-marrow damage in mice
I. Sex comparison in DBA/2 mice (MTR 08692)
C.A. Luke, R.R. Tice and R.T. Drew (U.S.A.) 251
The effect of exposure regimen and duration on benzene-induced bone marrow damage in mice
II. Strain comparisons involving B6C3F1, C57B1/6 and DBA/2 male mice (MTR 08689)
C.A. Luke, R.R. Tice and R.T. Drew (U.S.A.) 273
Statistical methods to decide whether mutagenicity test data from Drosophila assays indicate a positive, negative, or inconclusive result (MTR 08691)
H. Frei and F.E. Würgler (Switzerland) 297
The TX; Y test for the detection of nondisjunction and chromosome breakage in *Drosophila melanogaster*
II. Results of female exposures (MTR 08693)
P.A. Foureman (U.S.A.) 309
Synaptonemal complex damage in relation to meiotic chromosome aberrations after exposure of male mice to cyclophosphamide (MTR 08694)
L.C. Backer, J.B. Gibson, M.J. Moses and J.W. Allen (U.S.A.) 317

Announcement 331

Research Papers
A simple method for assessment of rat cytochrome P-448 isozymes responsible for the mutagenic activation of carcinogenic chemicals (MTR 08695)
M. Degawa, H. Ueno, S.-i. Miura, A. Ohta and M. Namiki (Japan) 333
Immunofluorescent staining of kinetochores in micronuclei: a new assay for the detection of aneuploidy (MTR 08696)
F. Degrassi and C. Tanzarella (Italy) 339
Induction of sister-chromatid exchanges by direct and indirect agents in a human teratoma cell line (MTR 08699)
G.L. Murison (U.S.A.) 347
Mutagenic characterization of cholesterol epoxides in Chinese hamster V79 cells (MTR 08701)
A.R. Peterson, H. Peterson, C.P. Spears, J.E. Trosko and A. Sevanian (U.S.A.) 355

Environmental Mutagen Society of Japan
Selected Abstracts of the 16th Annual Meeting of the Environmental Mutagen Society of Japan, 27–28 October 1987, Kyoto (Japan) (MTR 08698) 367

Announcements 395

Editorial Announcement iii
Research Papers
Characterization of an in vitro micronucleus assay with Syrian hamster embryo fibroblasts (MTR 08697)
G. Schmuck, G. Lieb, D. Wild, D. Schiffmann and D. Henschler (F.R.G.) 397
Kinetochore immunofluorescence in micronuclei: A rapid method for the in situ detection of aneuploidy and chromosome breakage in human fibroblasts (MTR 08700)
U.G.G. Hennig, N.L. Rudd and D.I. Hoar (Canada) 405
The *E. coli* multitest: a set of strains to characterize diverse genotoxic effects (MTR 08702)
L. Tenenbaum, I. Quinto and M. Faelen (Belgium) 415
The TX; Y test for the detection of nondisjunction and chromosome breakage in *Drosophila melanogaster*
I. Analysis of spontaneous events and results of male exposure (MTR 08704)
P.A. Foureman (U.S.A.) 427

Contents, Vol. 203 (1988) 445